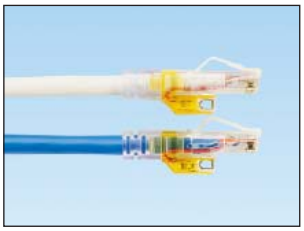
PanView iQ™ (PViQ™) Interconnect Patch Cords – Enhanced

PANDUIT®

SPECIFICATION SHEET

specifications

Category 6A/Class E_A UTP interconnect patch cords shall be constructed of 26 AWG stranded copper cable with a PViQ™ Patch Panel Plug on one end and a LED switch modular plug on the other end. Copper conductors in patch cable shall be twisted in pairs and separated by a quadrant separator. All four pairs shall be surrounded by MaTriX tape. Additional 26 AWG conductors shall connect the LED switch plug to 9th and 10th contacts on the PViQ™ Patch Panel Plug. A flame retardant jacket will cover all conductors. The MaTriX tape shall suppress alien crosstalk and allow 10 Gb/s transmission. Patch cords shall be used in conjunction with intelligent patch panels and exclusively for interconnect architectures.



technical information

Category 6A/Class E_A channel performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E_A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems; attenuation de-rating factor is 1.5 Certified component performance to the ANSI/TIA-568-C.2 component standard for supporting 10GBASE-T transmission over twisted-pair cabling systems
Cable diameter:	0.255 in. (6.5mm) nominal
Temperature rating:	14°F to 140°F (-10°C to 60°C) during operation -40°F to 158°F (-40°C to 70°C) during storage
FCC and ANSI compliance:	Meets ANSI/TIA/EIA-1096-A; contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
PoE compliance:	Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
UL listed:	UL 1863

key features and benefits

Switch/server port detection	Communicates connection status between switch/server and PViQ™ Patch Panels
100% performance tested	Assurance that each patch cord will deliver the critical electrical performance requirements
Integral pair manager	Optimizes performance and consistency by reducing untwist at the plug
Slender strain relief boot	Provides easy access in high-density applications
Patented tangle free latch	Prevents snags and provides easy release, saving time on frequent moves, adds, and changes
Ninth conductor continuity	Provides continuity through the patch cord enabling the PanView iQ™ System to monitor connectivity without interfering with Ethernet performance
Variety of cable colors and lengths	Meets individual length and color-coding requirements for greater system flexibility
LED indicator and switch	LEDs aid in patch cord tracing and connectivity changes at the switch end; they also identify unauthorized removals or insertions

applications

Panduit's PViQ™ System Hardware, which includes intelligent patch panels, modules and cabling, seamlessly feeds information directly into the Physical Infrastructure Manager (PIM™) Software Platform to provide continuous real-time patch field monitoring and visibility of physical infrastructure connectivity for enhanced system reliability, security and capacity management.

PViQ™ Patch Panels support tiered installations to provide customers with the flexibility of installing passive connectivity that may be upgraded to fully managed at a future time. PViQ™ Interconnect Patch Cords enable intelligent physical infrastructure management for interconnect architectures by verifying switch port connection and communicating with the system software, to allow improved network visibility. Interconnect patch cords can reduce patch panel requirements by 50% over cross-connect designs, reducing installation and deployment costs.

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PanView iQ™ Interconnect Patch Cords – Enhanced – UTP CM Rated	
Foot lengths:	PVQ-EUSDC3BU*
Meter lengths:	PVQ-EUSDC1MBU^
PanView iQ™ Interconnect Patch Cords – Enhanced – STP CM/LSZH Rated	
Foot lengths:	PVQ-ES6X3BU*
Meter lengths:	PVQ-ES6X1MBU^
PanView iQ™ Interconnect Patch Cords – CM Rated	
Foot lengths:	PVQ-BIU6C3BU*
Meter lengths:	PVQ-BIU6C1MBU**
PanView iQ™ Interconnect Patch Cords – LSZH Rated	
Meter lengths:	PVQ-BIU6L1MBU^
PanView iQ™ Patch Panels	
Modular, intelligent, blank 24-port	
Flat unshielded:	PVQ-MIQPU24
Angled unshielded:	PVQ-MIQAPU24
Flat shielded:	PVQ-MIQPS24
Angled shielded:	PVQ-MIQAPS24
PanView iQ™ Intelligence Modules	
Panel manager (PM):	PVQ-PM
Expansion module (EM):	PVQ-EM
NOTE: PM requires PanViewiQ™ Power Supply (not included).	
PanView iQ™ Power Supply	
12 volt power supply	
(North America):	PVQ-PS12VDC-S
(Europe):	PVQ-PS12VDC-E
(UK):	PVQ-PS12VDC-U
(Japan):	PVQ-PS12VDC-J
(China):	PVQ-PS12VDC-C
PIM™ Software Platform and Modules	
Base functionality module:	PIM-BASE
Connectivity management module:	PIM-CONNECT‡
Maintenance, support and warranty agreement:	PIM-CAMA

*For standard lengths other than 3 feet (5, 7, 10, 14, or 20) change the length designation in the part number to the desired length. For standard cable color other than BU (Blue), replace suffix BU with WH (White) at the end of the part number. For example, the part number for a white, 5-foot UTP patch cord is PVQ-EUSDC5WH. For example, the part number for a white, 5-foot STP patch cord is PVQ-ES6X5WH.

^For standard lengths other than 1 meter (2, 3, 5 or 10) change the length designation in the part number to the desired length. For standard cable color other than BU (Blue), replace suffix BU with WH (White) at the end of the part number. For example, the part number for a white 2 meter UTP patch cord is PVQ-ES6X2MWH. For example, the part number for a white 2 meter STP patch cord is PVQ-ES6X2MWH.

**For standard lengths other than 3 feet (5, 7, 10, 14, or 20) change the length designation in part number to the desired length. For standard cable colors other than BU (Blue) replace suffix BU with GR (Green) at the end of the part number. For example, the part number for a green 10-foot CM patch cord is PVQ-BIU6C10GR.

***For standard lengths other than 1 meter (2, 3, 5, or 10) change the length designation in part number to the desired length. For standard cable colors other than BU (Blue) replace suffix BU with GR (Green) at the end of the part number. For example, the part number for a green 10-meter CM patch cord is PVQ-BIU6C10MGR.

^^For standard lengths other than 1 meter (2, 3, 5, or 10) change the length designation in part number to the desired length. For standard cable colors other than BU (Blue), replace suffix BU with WH (White) at the end of the part number. For example, the part number for a white 10-meter, LSZH patch cord is PVQ-BIU6L10MWH.

‡To order this module, add the appropriate letter to the end of the part number, based on the size of the installation: -S (<50 racks); -M (50-199 racks); -L (200-399 racks); -X (400+ racks). For example, the part number for the Connectivity Management Module for 250 racks is PIM-CONNECT-L.

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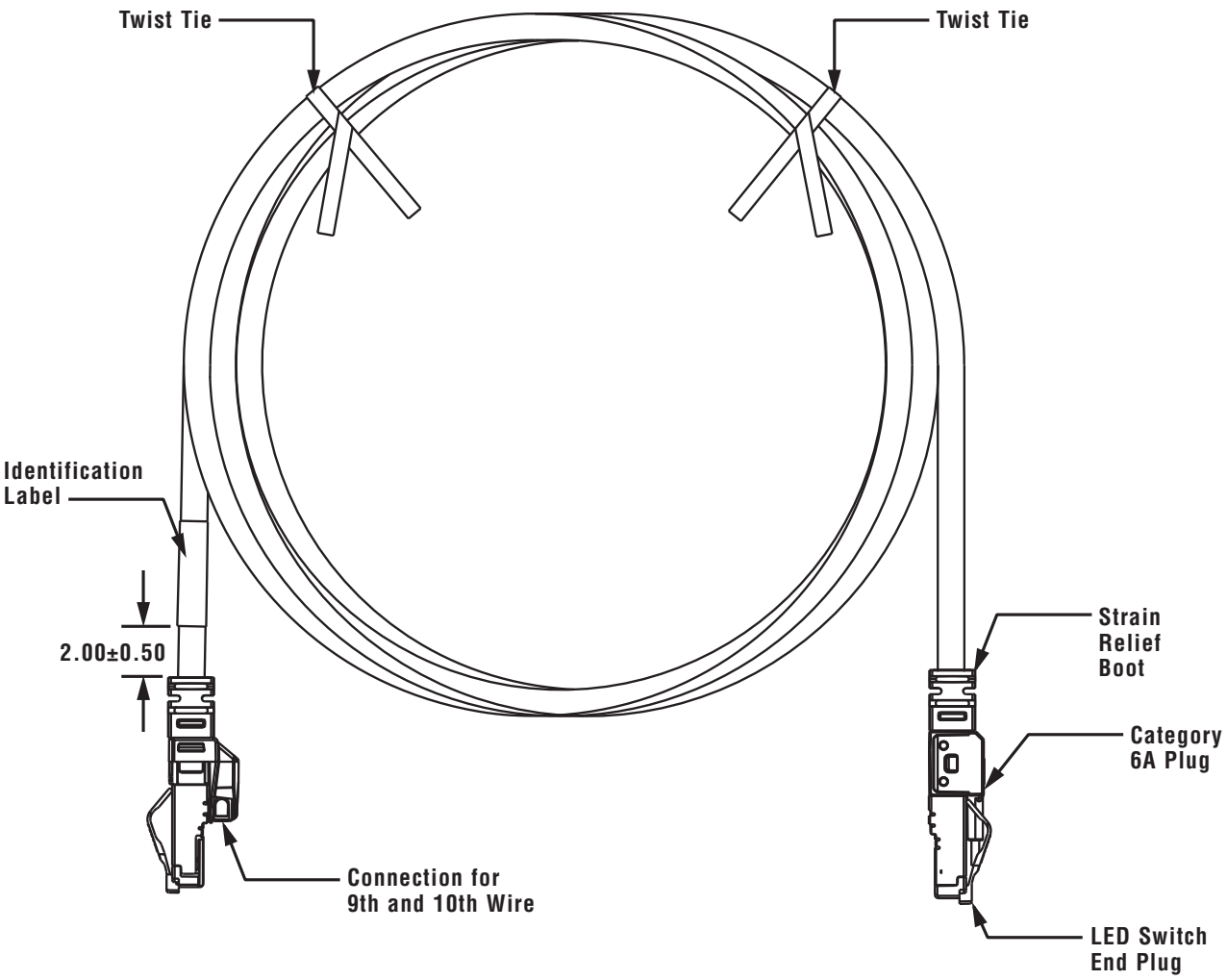

T568B Wiring Scheme

Plug Position	Cable Wire
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown

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Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panduit:

PVQ-EUSDC7BU PVQ-EUSDC45WH PVQ-EUSDC12WH PVQ-EUSDC4.5MWH PVQ-EUSDC15MBU PVQ-EUSDC3.5MWH PVQ-EUSDC4.5MBU PVQ-EUSDC9WH PVQ-EUSDC4MWH PVQ-EUSDC12BU PVQ-EUSDC8MWH PVQ-EUSDC1.5MBU PVQ-EUSDC1.5MWH PVQ-EUSDC20MBU PVQ-EUSDC8BU PVQ-EUSDC15WH PVQ-EUSDC7MBU PVQ-EUSDC20BU PVQ-EUSDC3.5MBU PVQ-EUSDC18WH PVQ-EUSDC20MWH PVQ-EUSDC8MBU PVQ-EUSDC25BU PVQ-EUSDC18BU PVQ-EUSDC4WH PVQ-ES6X14WH PVQ-ES6X3MWH PVQ-EUSDC9MBU PVQ-ES6X7BU PVQ-ES6X3MBU PVQ-ES6X5MWH PVQ-ES6X10BU PVQ-ES6X1MWH PVQ-ES6X5MBU PVQ-EUSDC9MWH PVQ-EUSDC7MWH PVQ-EUSDC5.5MWH PVQ-EUSDC6BU PVQ-ES6X2MBU PVQ-ES6X20BU PVQ-EUSDC4BU PVQ-EUSDC6WH PVQ-ES6X3WH PVQ-EUSDC50BU PVQ-EUSDC2.5MWH PVQ-ES6X7WH PVQ-ES6X2MWH PVQ-EUSDC2.5MBU PVQ-ES6X14BU PVQ-EUSDC40BU PVQ-EUSDC50WH PVQ-ES6X5WH PVQ-EUSDC2BU PVQ-EUSDC16WH PVQ-EUSDC15MWH PVQ-ES6X3BU PVQ-ES6X5BU PVQ-EUSDC40WH PVQ-ES6X1MBU PVQ-ES6X20WH PVQ-ES6X10WH PVQ-EUSDC4MBU PVQ-EUSDC3MBU PVQ-EUSDC25WH PVQ-EUSDC15BU PVQ-EUSDC3MWH PVQ-EUSDC3WH PVQ-EUSDC7WH PVQ-ES6X10MBU PVQ-EUSDC5MBU PVQ-EUSDC14BU PVQ-EUSDC5BU PVQ-EUSDC45BU PVQ-EUSDC2MWH PVQ-EUSDC10MWH PVQ-EUSDC10MBU PVQ-EUSDC3BU PVQ-EUSDC10BU PVQ-EUSDC16BU PVQ-EUSDC6MBU PVQ-EUSDC8WH PVQ-EUSDC2WH PVQ-EUSDC5MWH PVQ-EUSDC1MWH PVQ-EUSDC20WH PVQ-EUSDC35WH PVQ-EUSDC30WH PVQ-EUSDC1MBU PVQ-EUSDC30BU PVQ-EUSDC14WH PVQ-EUSDC9BU PVQ-EUSDC35BU PVQ-EUSDC5WH PVQ-EUSDC5.5MBU PVQ-ES6X10MWH PVQ-EUSDC10WH PVQ-EUSDC2MBU PVQ-EUSDC6MWH